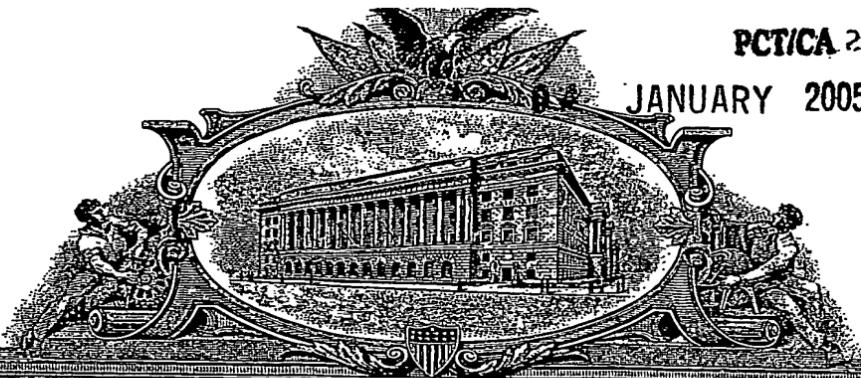


JANUARY 2005 04.01.05

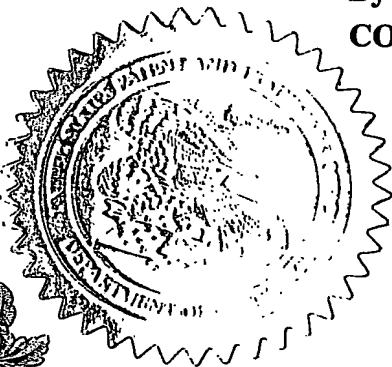
PA 1247027


THE UNITED STATES OF AMERICA**TO ALL TO WHOM THESE PRESENTS SHALL COME;****UNITED STATES DEPARTMENT OF COMMERCE****United States Patent and Trademark Office****December 02, 2004**

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APPLICATION THAT MET THE REQUIREMENTS TO BE GRANTED A
FILING DATE UNDER 35 USC 111.**

APPLICATION NUMBER: 60/517,032**FILING DATE: November 04, 2003**

**By Authority of the
COMMISSIONER OF PATENTS AND TRADEMARKS**


M. K. HAWKINS**Certifying Officer****BEST AVAILABLE COPY**

16076 U.S. PTO

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PTO/SB/18 (5-03)

Approved for use through 04/30/2003. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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PROVISIONAL APPLICATION FOR PATENT COVER SHEET

This is a request for filing a PROVISIONAL APPLICATION FOR PATENT under 37 CFR 1.53(c).

INVENTOR(S)					
Given Name (first and middle (if any))	Family Name or Surname	Residence (City and either State or Foreign Country)			
Robert B.	Mooney	Farmington Hills, MI			
<input type="checkbox"/> Additional inventors are being named on the _____ separately numbered sheets attached hereto					
TITLE OF THE INVENTION (280 characters max)					
PANORANIC RETRACTABLE TOP					
Direct all correspondence to: CORRESPONDENCE ADDRESS					
<input checked="" type="checkbox"/> Customer Number 28886 <div style="float: right; border: 1px solid black; padding: 5px; margin-top: 10px;">Place Customer Number Bar Code Label here</div>					
OR Type Customer Number here					
<input checked="" type="checkbox"/> Firm or Individual Name Kevin S. MacKenzie					
Address Clark Hill PLC					
Address 500 Woodward Avenue, Suite 3500					
City Detroit		State MI		ZIP 48226-3435	
Country US		Telephone 313-965-8300		Fax 313-965-8252	
ENCLOSED APPLICATION PARTS (check all that apply)					
<input checked="" type="checkbox"/> Specification Number of Pages 3		<input type="checkbox"/> CD(s), Number 			
<input checked="" type="checkbox"/> Drawing(s) Number of Sheets 10		<input type="checkbox"/> Other (specify) 			
<input type="checkbox"/> Application Data Sheet. See 37 CFR 1.76					
METHOD OF PAYMENT OF FILING FEES FOR THIS PROVISIONAL APPLICATION FOR PATENT (check one)					
<div style="display: flex; justify-content: space-between;"> <div> <input type="checkbox"/> A check or money order is enclosed to cover the filing fees <input checked="" type="checkbox"/> The Director is hereby authorized to charge filing fees or credit any overpayment to Deposit Account Number 50-1759 <input type="checkbox"/> Payment by credit card. Form PTO-2038 is attached. </div> <div style="text-align: right;"> FILING FEE AMOUNT (\$) <div style="border: 1px solid black; padding: 5px; width: 100px; margin-top: 10px;">\$160.00</div> </div> </div>					
The invention was made by an agency of the United States Government or under a contract with an agency of the United States Government.					
<input checked="" type="checkbox"/> No. <input type="checkbox"/> Yes, the name of the U.S. Government agency and the Government contract number are: _____					

Respectfully submitted,

SIGNATURE

TYPED or PRINTED NAME Kevin S. MacKenzie

TELEPHONE

313-965-8300

Date

11/04/2003

REGISTRATION NO.

45,639

(if appropriate)

Docket Number:

19339-095692

USE ONLY FOR FILING A PROVISIONAL APPLICATION FOR PATENT

This collection of information is required by 37 CFR 1.51. The information is used by the public to file (and by the PTO to process) a provisional application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 8 hours to complete, including gathering, preparing, and submitting the complete provisional application to the PTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Provisional Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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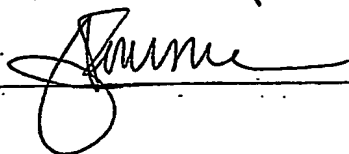
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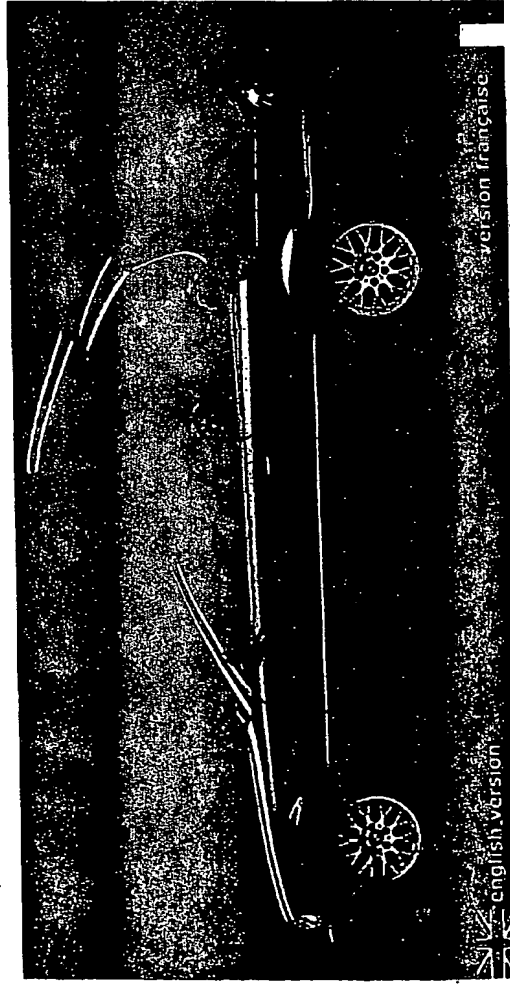
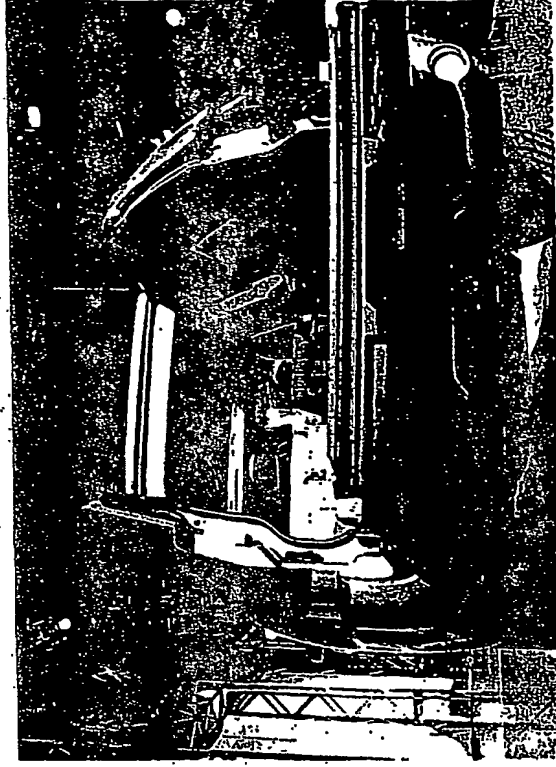
Attorney Docket No : 19339-095692

INTICOR

**Panoramic Retractable Top
For Legal Office
10/21/03**

Shaping the inner dimension™

- **First to market**
 - with Sunroof function AND full open air retraction for Sedan (4 door) vehicles
- **Minimal panel packaging / storage size into trunk during and after retraction due to unique kinematics**
- **All glass modular roof**
 - Laminated glass for reduced NVH
 - Glass laminations to provide variable optic effects
- **Full size back seat**
 - No infringement into rear seating
- **Decklid opening not required during panel kinematics**
- **Security of a hard top, with sunroof & full open air options**
- **Motor and actuator driven system**
- **Maintains base car performance requirements**
 - Torsional; Roof crush; Side impact; Head impact, etc.



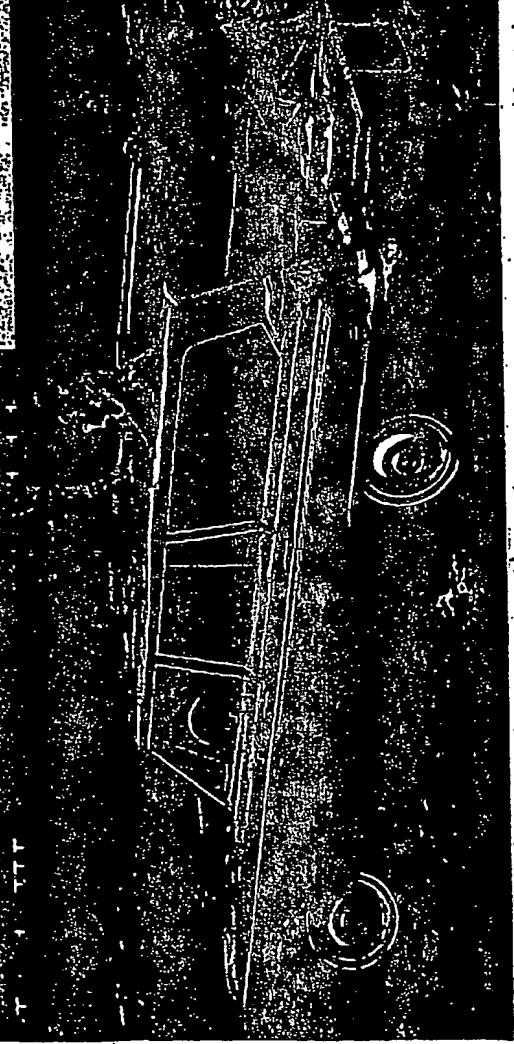
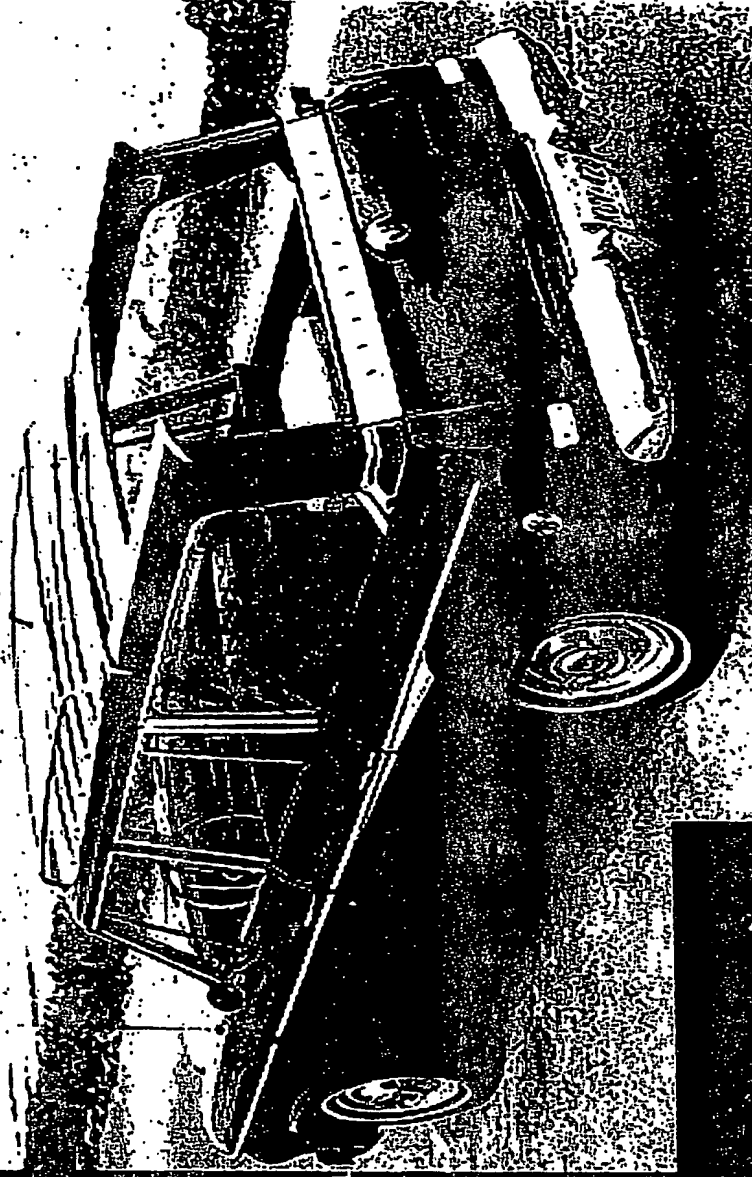
Retractable

Sliding Roof

INTIER

1964 Studebaker Lark Station Wagon

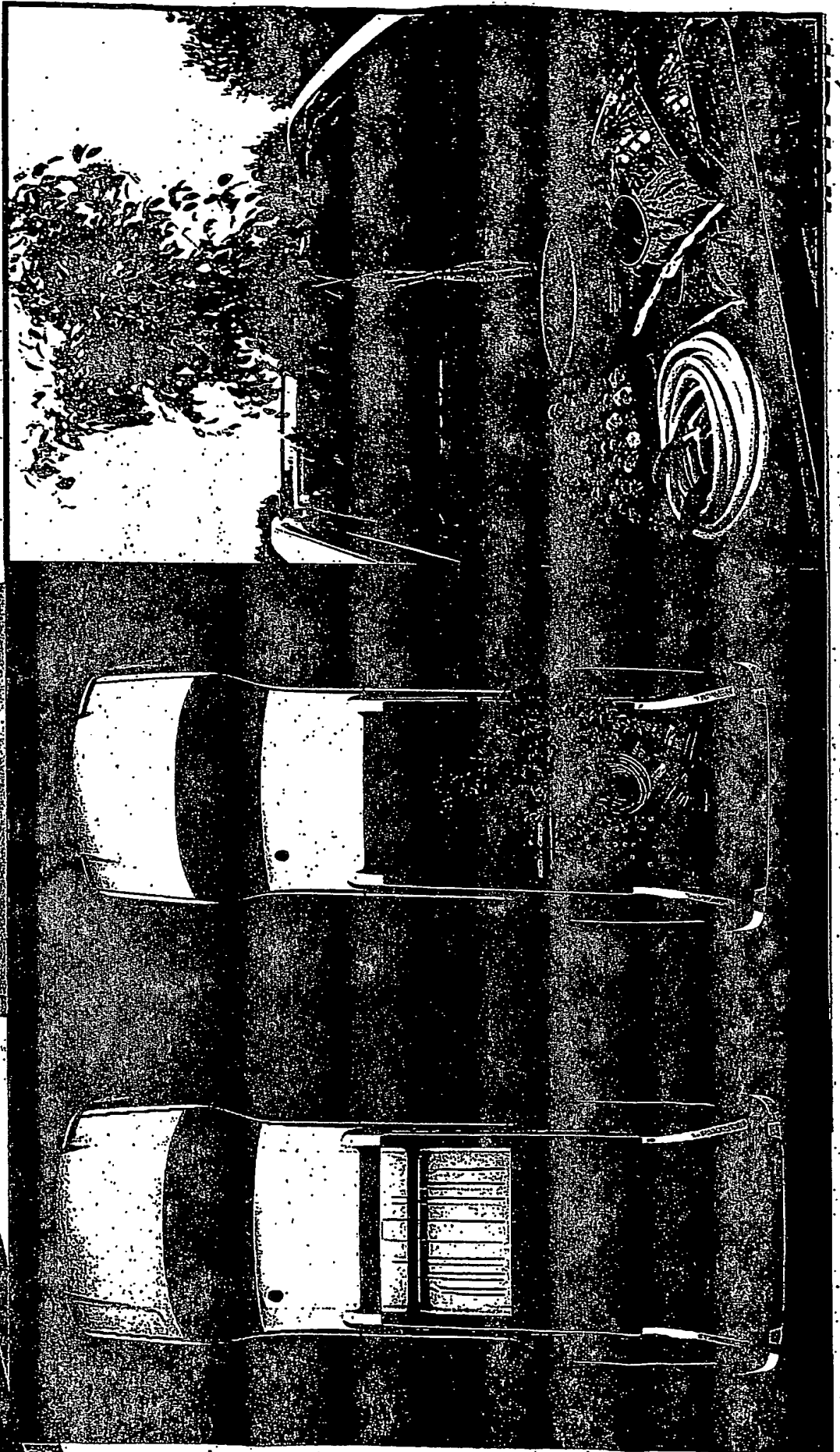
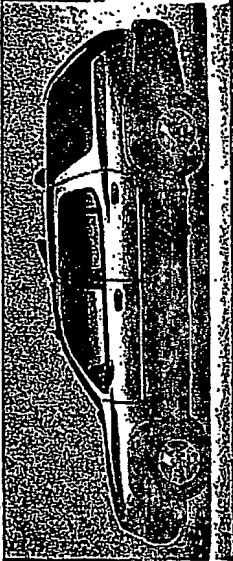
the Lark Station Wagon for 1964. It was now called Wagoneer and featured a retractable sliding roof above the cargo compartment. This enhanced practicality and Studebaker advertised it as "a family car, a functional utility wagon and a fun-filled convertible." The tailgate was charged with a one-piece built-in air-lifted winter window.



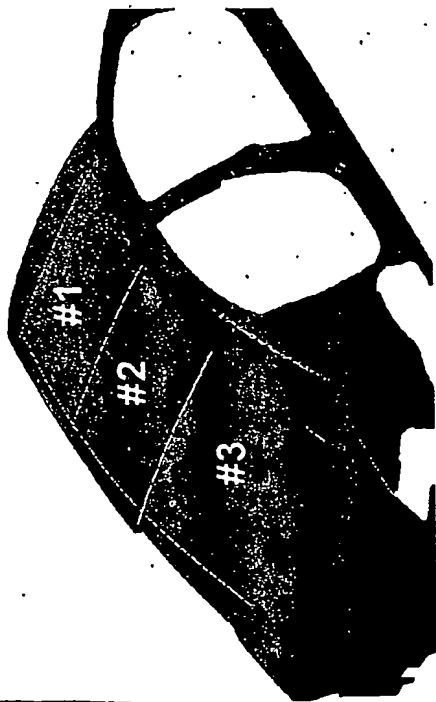
**"What was old is
new again"**

INTIER

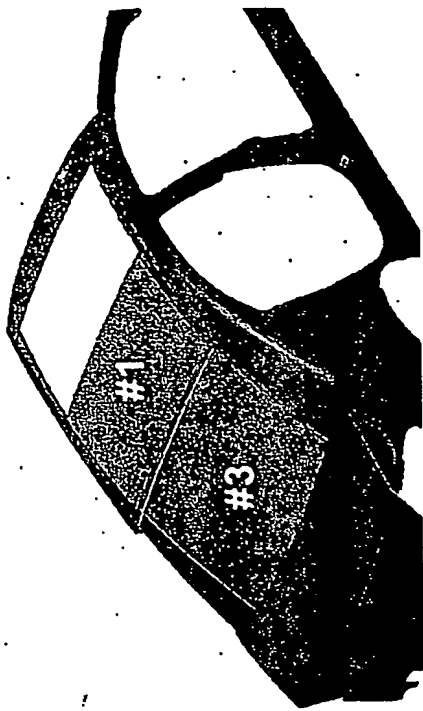
2004 GMC Envoy XUV



Intier panel movement stages



1) All panels closed



2) Sunroof function - #1 slides over #2



3) #3 unlocks and rotates out and then #1 & 2 slide under #3



4) Package tray swings up and then #1 & 2 & 3 all rotate into trunk **INTER** and package tray returns



Panel 1 retracted
over Panel 2
(sunroof function)

Panel 3

Decklid

Panel 2

Package
Tray

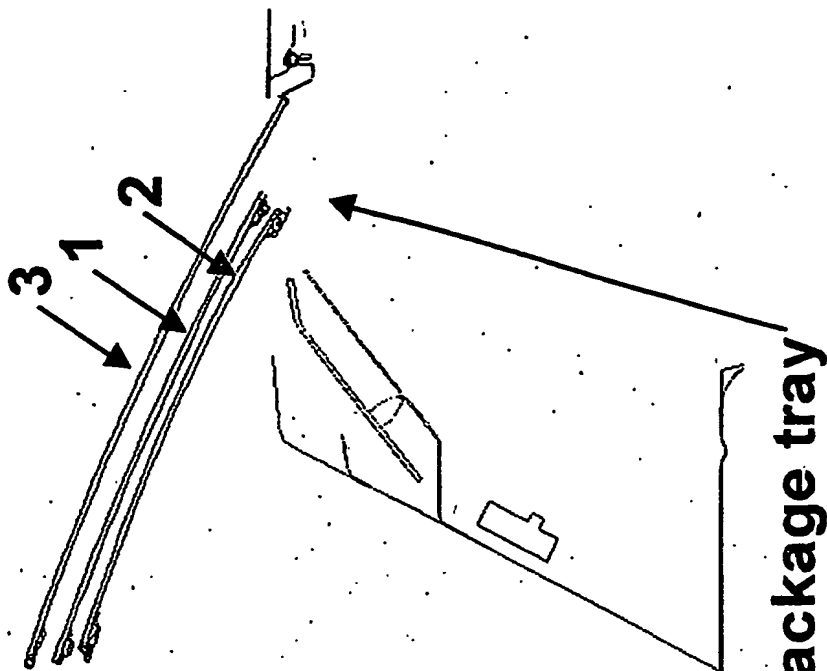
Rear Seat
Back

Trunk
bottom ledge

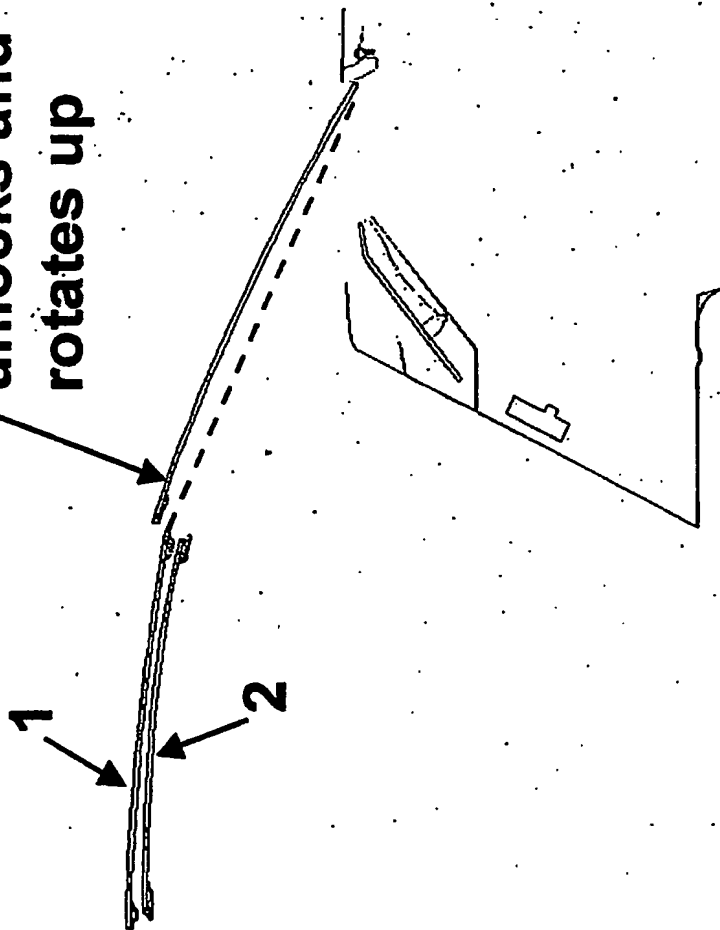
Centerline Section

INTER

**Panels 1&2
slide under
Panel 3**

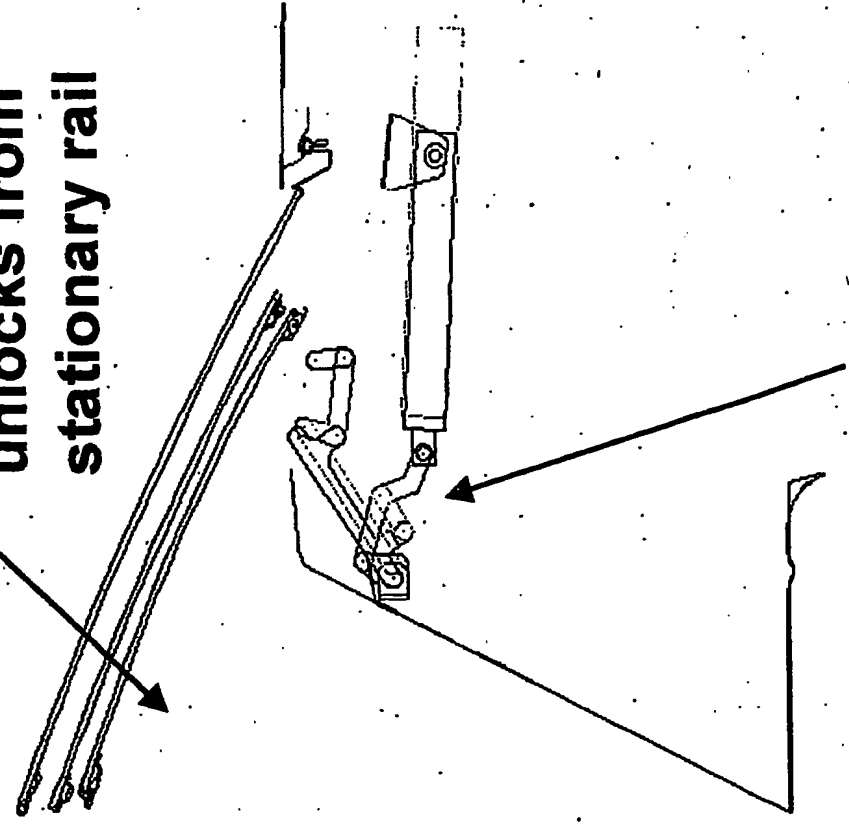


**Panel 3
unlocks and
rotates up**

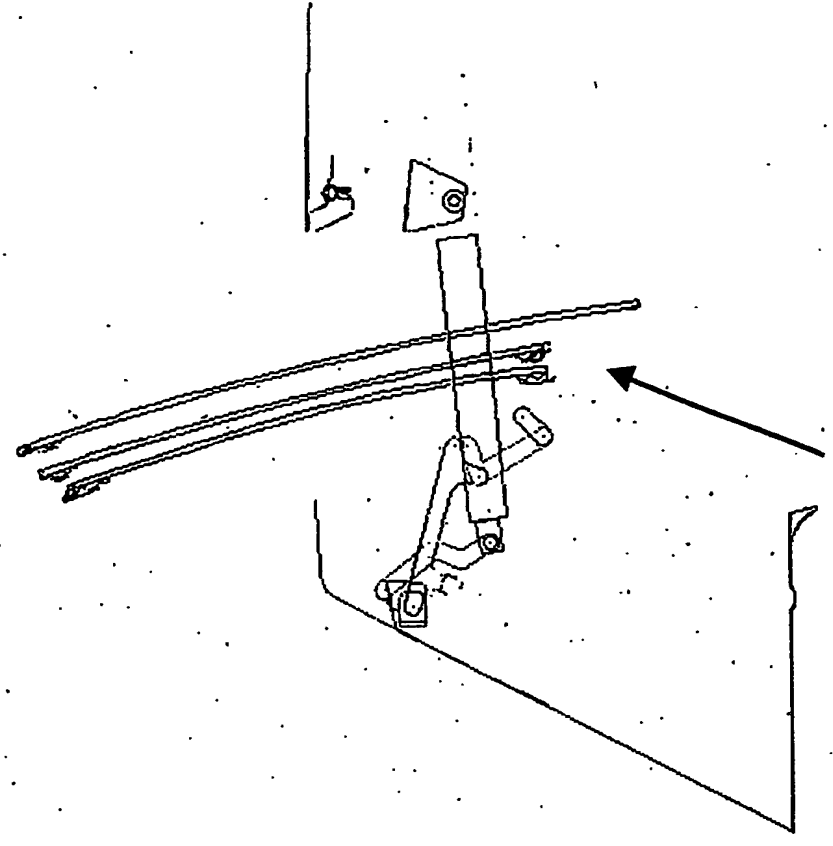


How the 3 panels retract

**Rear rail
unlocks from
stationary rail**

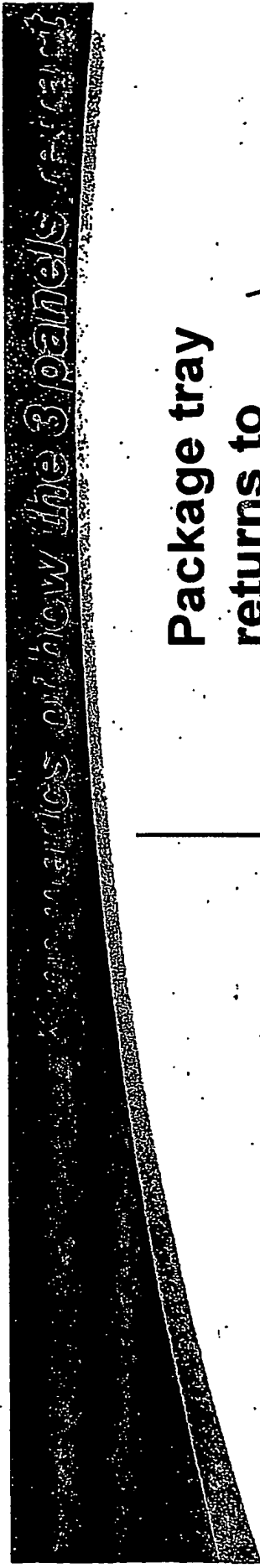


**Top retractable
mechanism system**

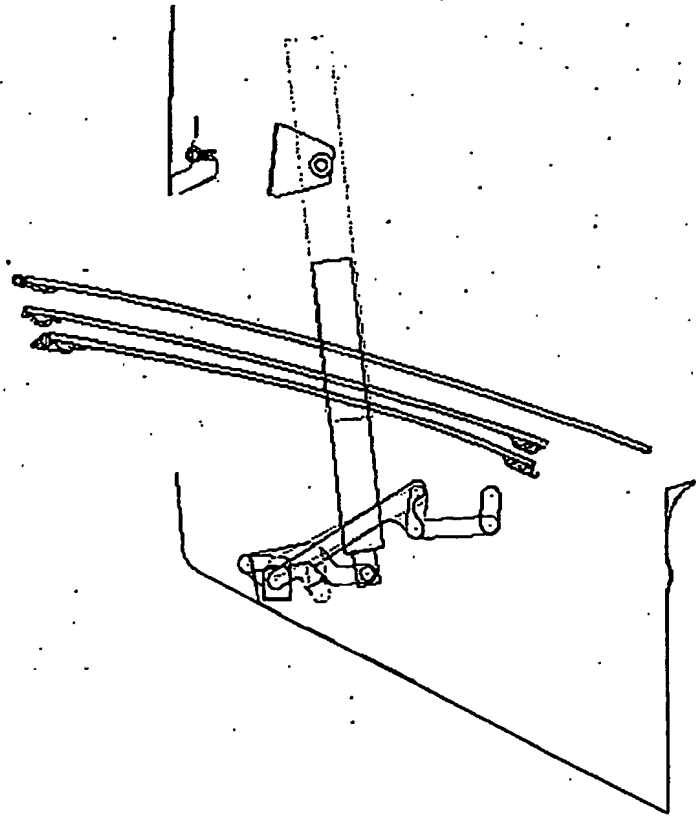


**3 panels rotate
together**

INTER

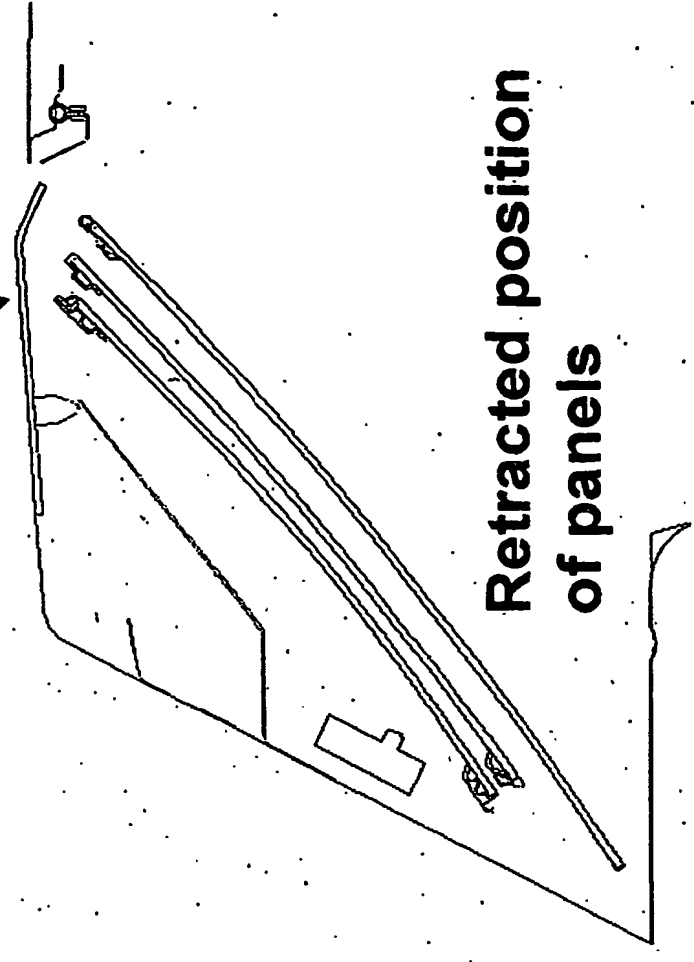


How the 3 panels retract



Retractable mechanism rotate panels with very limited intrusion into trunk

Package tray returns to complete trim



Retracted position of panels

INTER

Retractable Hard Top Systems

No integrated sunroof function

Decklid kinematics required

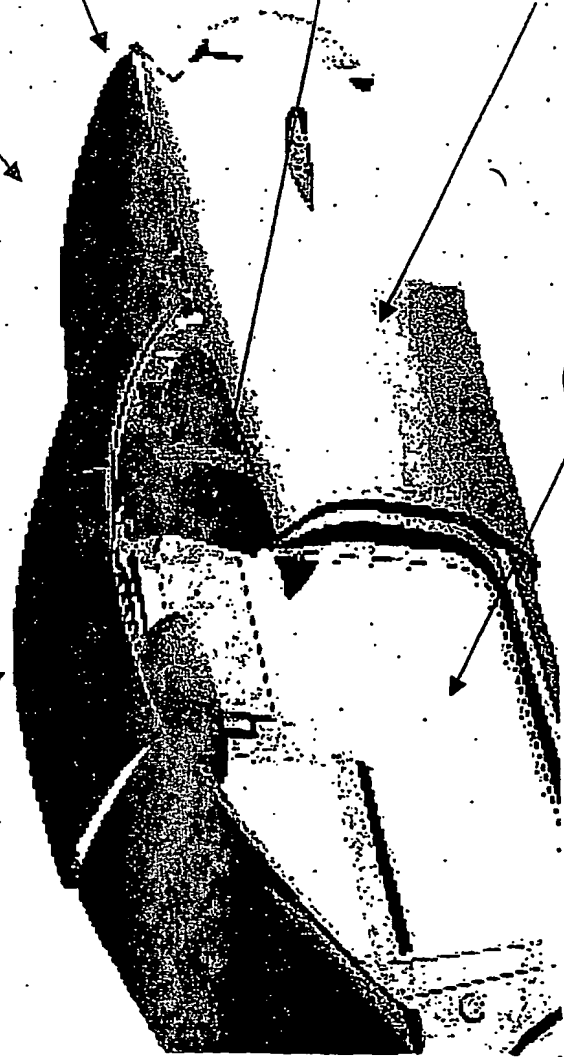
Limited or no trunk space

Limited or no back seating

Hydraulically driven

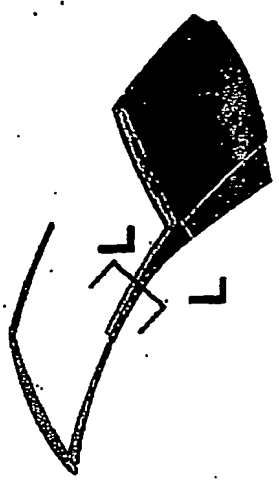
Coupes only

Double click on car for top kinematics



INTER

Panel #1 retracted



Panel 1

Panel 2

Panel 1
glass reinf

Seal

Fixed close
out panel

Panel #2
mechanism

Panel 1 cable

Panel #1
mechanism

Mounting to
body structure

Water management

Section LL

3

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Date of receipt at the International Bureau: 23 February 2005 (23.02.2005)

Remark: Priority document submitted or transmitted to the International Bureau in compliance with Rule 17.1(a) or (b)



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